

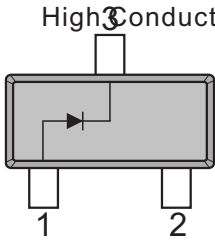


SOT-23

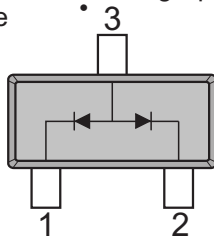
Switching Diodes

FEATURES

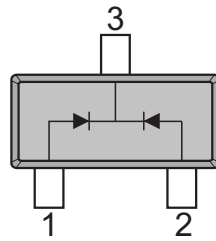
- Fast Switching Speed
- For General Purpose Switching Application
- High Conductance



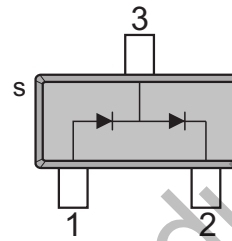
MMBD4148A



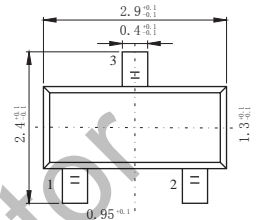
MMBD4148CA



MMBD4148CC



MMBD4148SE



Maximum Ratings @Ta=25°C

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	100	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	75	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	I _O	200	mA
Peak Forward Surge Current @t=1.0μs	I _{FSM}	2.0	A
@t=1.0s		1.0	
Power Dissipation	P _D	350	mW
Thermal Resistance Junction to Ambient	R _{thJA}	357	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

Electrical Characteristics @Ta = 25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _{(BR)1}	I _R =100μA	100			V
	V _{(BR)2}	I _R =5 μA	75			V
Forward voltage	V _F	I _F =10mA			1.0	V
Reverse current	I _{R1}	V _R =75V			5.0	μA
	I _{R2}	V _R =25V			25	nA
Capacitance between terminals	C _T	V _R =0V, f=1MHz			4.0	pF
Reverse recovery time	t _{rr}	I _F =I _R =10mA, V _R =6V I _{rr} =0.1X I _R , R _L =100Ω			4.0	ns

Fig.1 Power Derating Curve

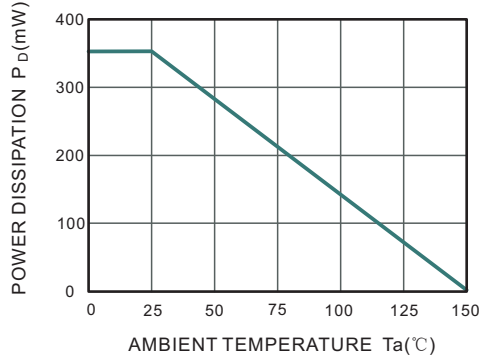


Fig.2 Reverse Characteristics

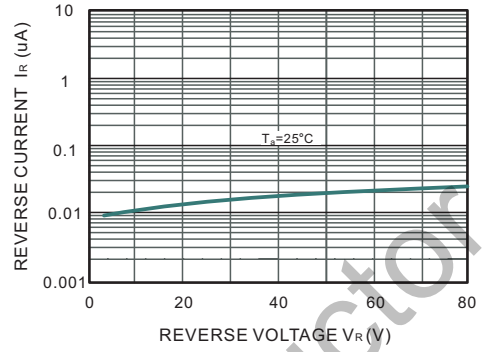


Fig.3 Forward Characteristics

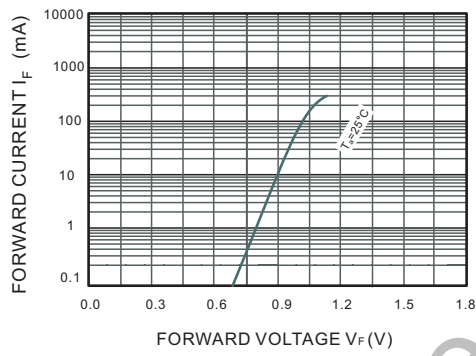


Fig.4 Capacitance Characteristics

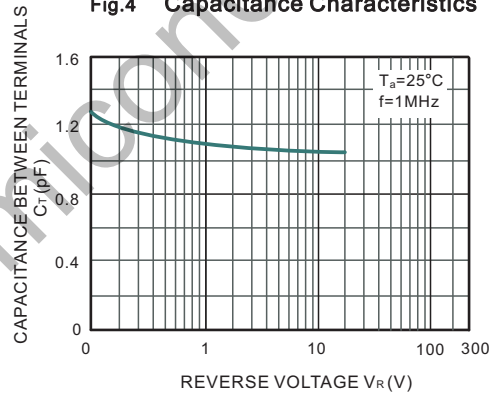
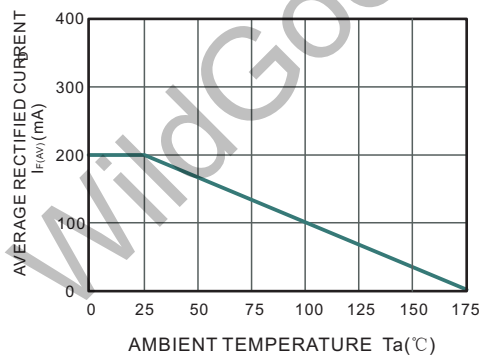
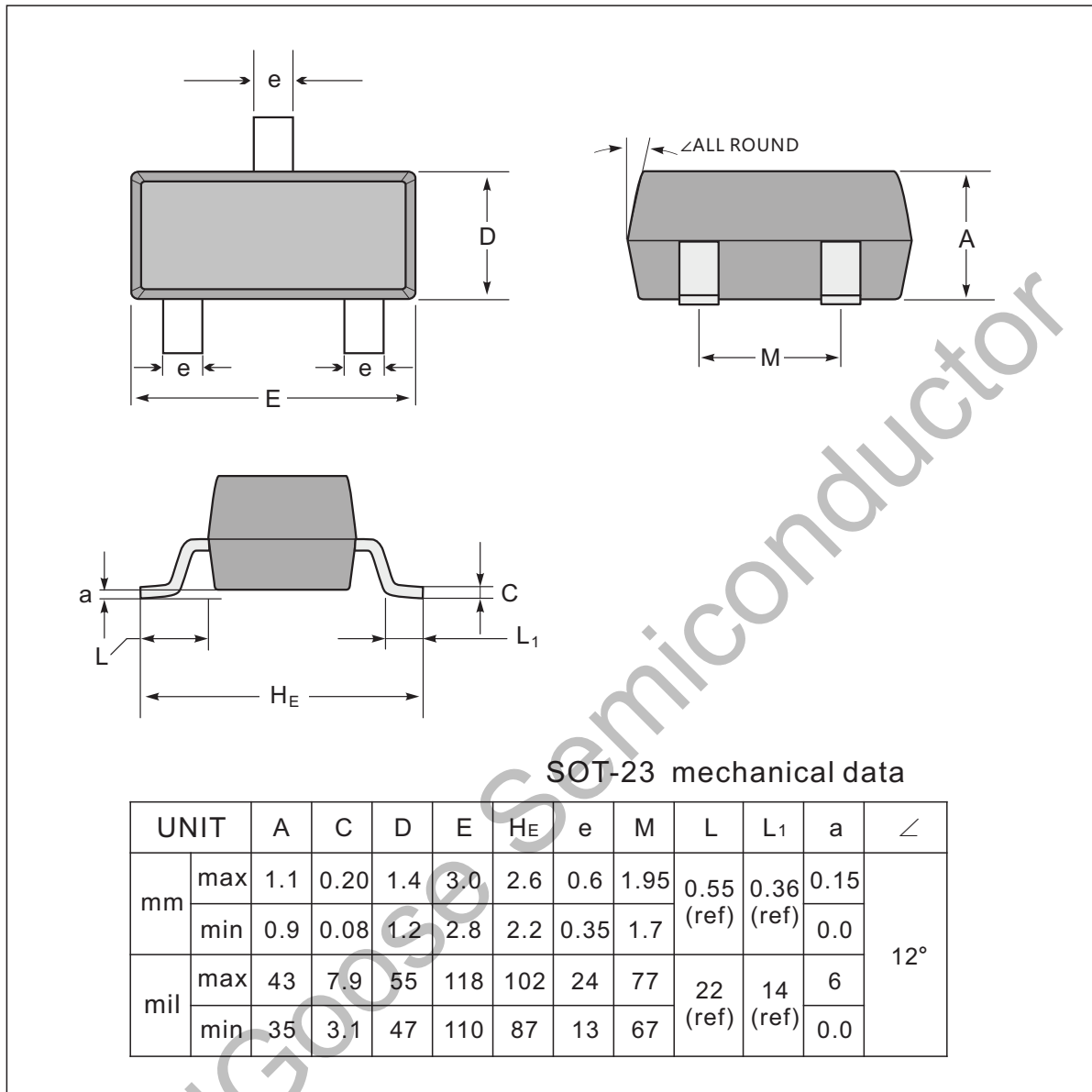


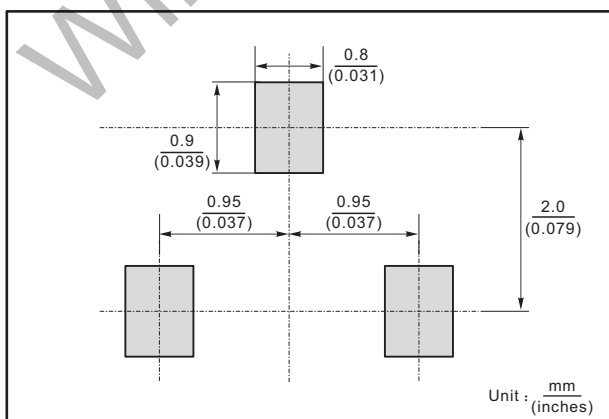
Fig.5 Semiconductor Intrinsic Property



SOT-23 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code
MMBD4148A	5H
MMBD4148CA	D6
MMBD4148CC	D5
MMBD4148SE	D4

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